

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1210084

Luminaire Tested: **ARCH2-100-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9711 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

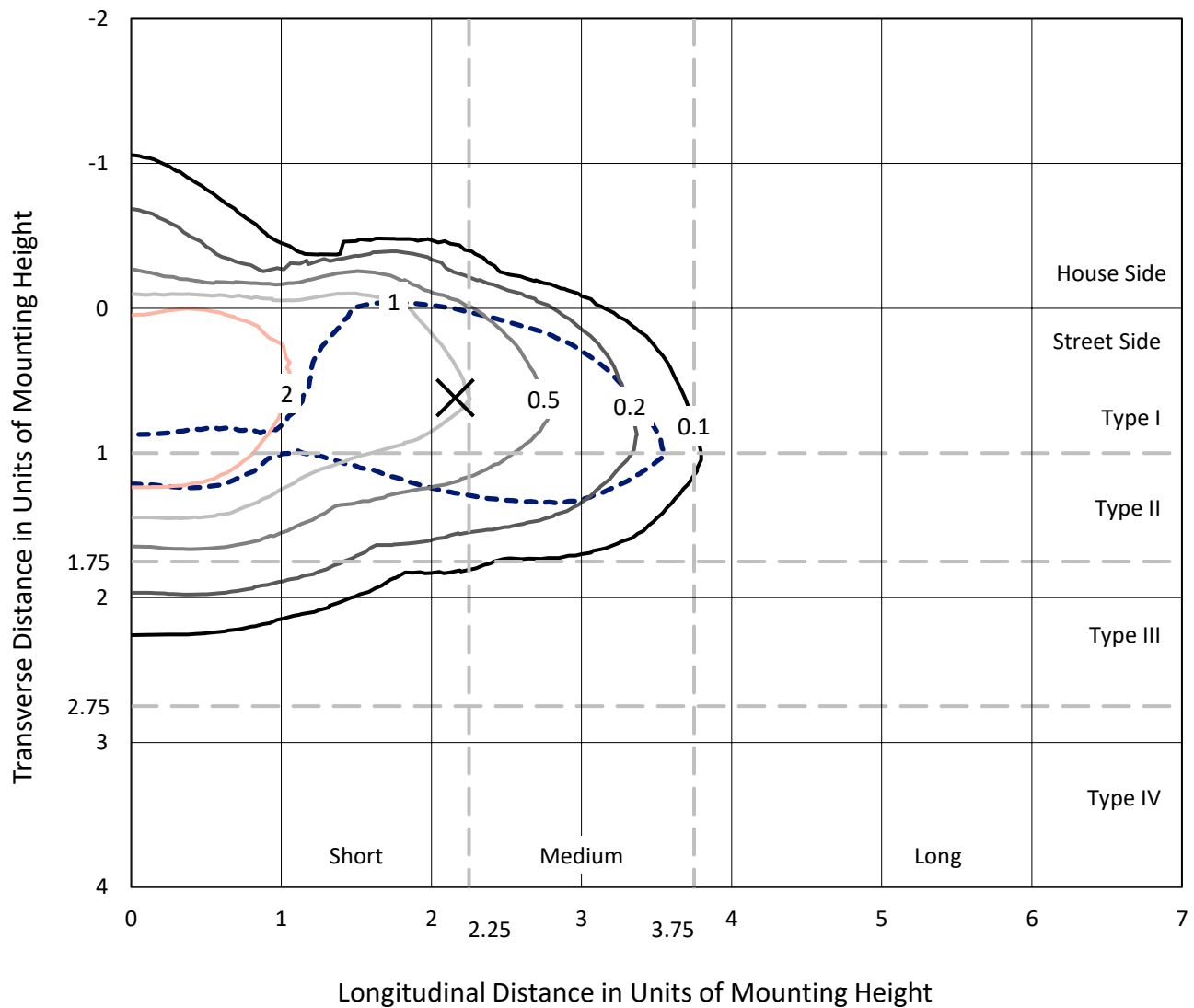


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Iso-Footcandle Lines of Horizontal Illumination

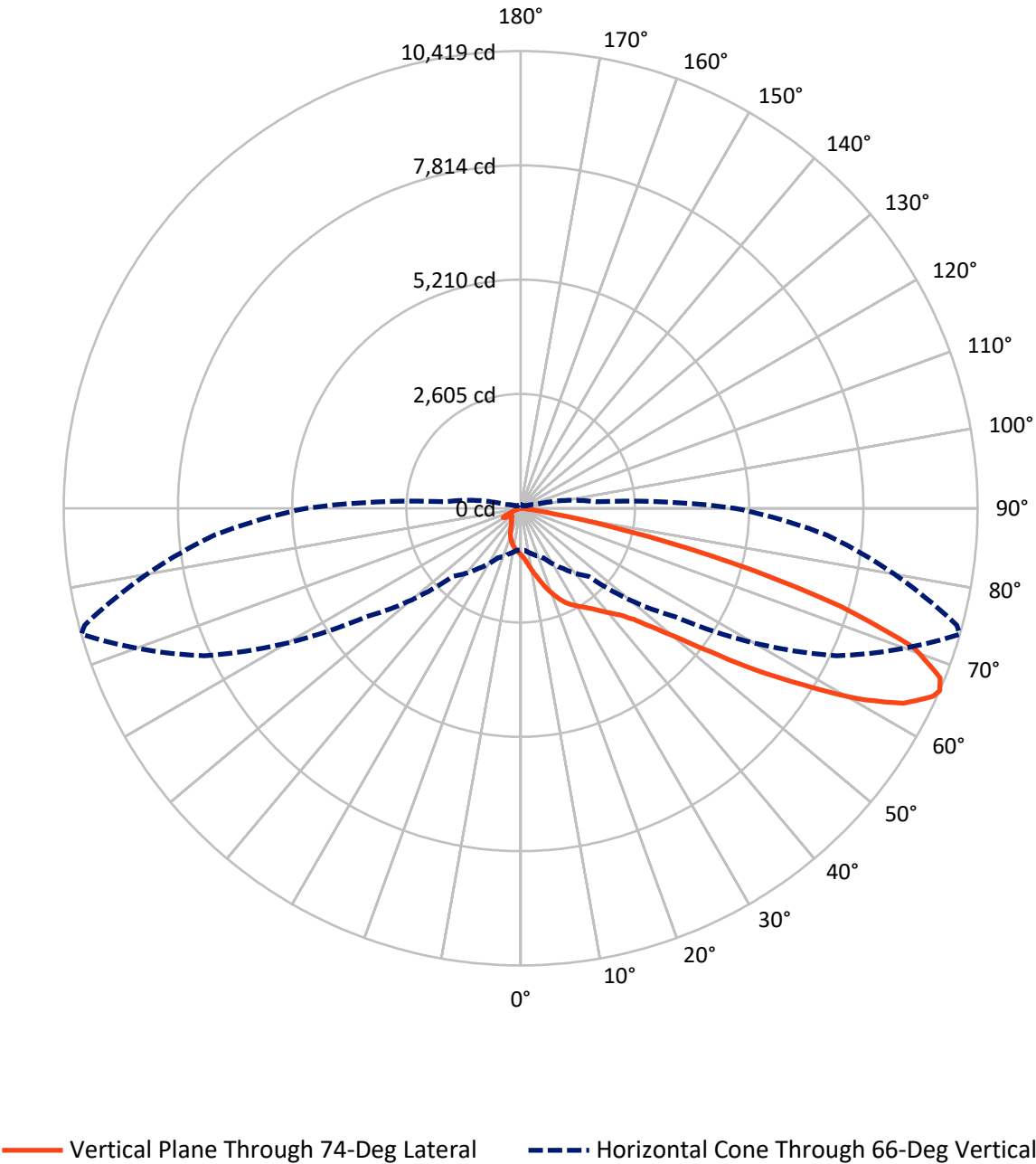
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	952.0	0.0	952.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8759.0	0.0	8759.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	9711.0	0.0	9711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	1.1
10°-20°	331.7	3.4
20°-30°	633.0	6.5
30°-40°	1109.5	11.4
40°-50°	1902.6	19.6
50°-60°	2474.4	25.5
60°-70°	2240.0	23.1
70°-80°	864.3	8.9
80°-90°	52.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9711.0	100.0
0°-180°	9711.0	100.0

Coefficient of Utilization



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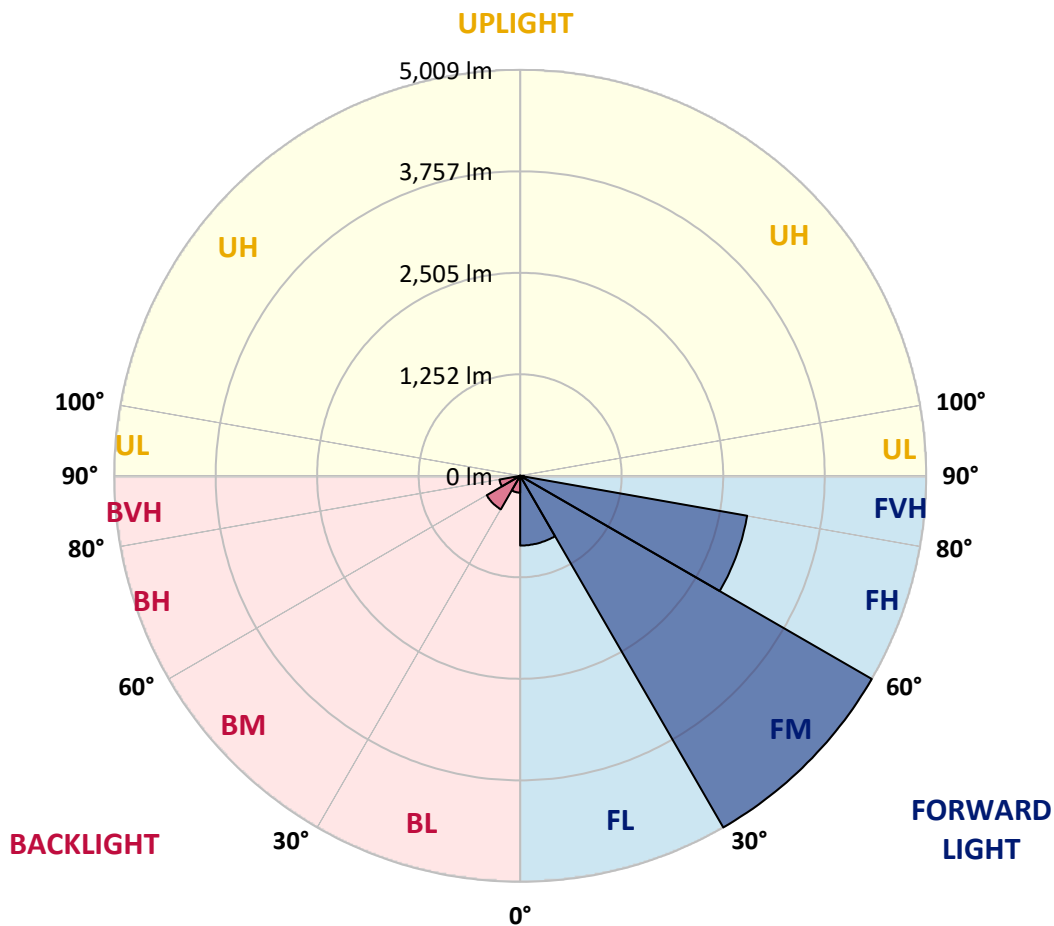
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	860.5	8.9			
FM	(30°-60°)	5009.4	51.6			
FH	(60°-80°)	2844.0	29.3			G2/5000
FVH	(80°-90°)	45.0	0.5			G1/100
BL	(0°-30°)	207.7	2.1	B1/500		
BM	(30°-60°)	477.1	4.9	B1/1000		
BH	(60°-80°)	260.3	2.7	B1/500		G1/500
BVH	(80°-90°)	7.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0
2.5°	1272.7	1262.3	1243.1	1241.4	1225.7	1206.5	1173.4	1138.5	1114.1	1110.6	1081.0
5°	1523.8	1518.6	1499.4	1487.2	1457.6	1412.2	1335.5	1258.8	1194.3	1187.3	1121.1
7.5°	1590.1	1593.5	1597.0	1609.2	1598.8	1577.9	1520.3	1412.2	1311.1	1295.4	1180.3
10°	1600.5	1597.0	1597.0	1612.7	1642.4	1672.0	1665.0	1572.6	1441.9	1422.7	1262.3
12.5°	1713.8	1719.1	1706.9	1699.9	1694.7	1710.4	1762.7	1722.6	1579.6	1563.9	1361.7
15°	1860.3	1858.6	1841.1	1841.1	1825.4	1799.3	1832.4	1862.0	1745.2	1726.1	1475.0
17.5°	1966.7	1973.6	1971.9	1982.3	1977.1	1942.2	1924.8	1985.8	1916.1	1891.7	1604.0
20°	2052.1	2071.3	2078.2	2111.4	2127.1	2102.6	2057.3	2095.7	2080.0	2057.3	1734.8
22.5°	2142.7	2158.4	2170.6	2228.2	2271.8	2266.5	2209.0	2200.3	2238.6	2217.7	1863.8
25°	2233.4	2240.4	2277.0	2346.7	2416.5	2433.9	2374.6	2306.6	2381.6	2362.4	1978.9
27.5°	2332.8	2336.3	2379.9	2465.3	2562.9	2599.5	2552.5	2426.9	2491.4	2491.4	2083.5
30°	2514.1	2549.0	2566.4	2643.1	2728.6	2779.1	2723.3	2554.2	2589.1	2604.8	2193.3
32.5°	2904.6	2909.9	2904.6	2937.8	2955.2	2984.8	2920.3	2697.2	2688.5	2705.9	2301.4
35°	3500.9	3480.0	3424.2	3375.4	3274.3	3218.5	3134.8	2880.2	2810.5	2834.9	2407.8
37.5°	4224.5	4194.8	4067.6	3917.6	3701.4	3478.3	3373.6	3103.4	2965.7	2997.1	2522.8
40°	4914.9	4895.7	4744.0	4559.2	4189.6	3807.8	3586.4	3291.7	3138.3	3150.5	2639.6
42.5°	5483.3	5479.8	5352.5	5159.0	4684.7	4163.4	3837.4	3476.5	3319.6	3338.8	2761.7
45°	5913.9	5880.8	5786.6	5647.2	5164.2	4533.1	4140.8	3757.2	3610.8	3633.4	2944.7
47.5°	5913.9	5919.1	5980.2	5966.2	5499.0	4880.0	4472.0	4111.1	4041.4	4062.3	3246.4
50°	5432.7	5481.5	5753.5	5981.9	5673.3	5150.3	4829.5	4554.0	4625.5	4656.9	3772.9
52.5°	4480.8	4562.7	5035.2	5556.5	5544.3	5286.3	5199.1	5117.1	5437.9	5493.7	4550.5
55°	3405.0	3459.1	4074.5	4759.7	4982.9	5174.7	5521.6	5832.0	6513.7	6501.5	5340.3
57.5°	2543.7	2594.3	3124.3	3884.5	4179.1	4691.7	5687.3	6649.7	7580.7	7627.8	6081.3
60°	1870.8	1909.1	2360.7	2984.8	3410.3	3952.5	5621.0	7455.1	8809.8	8755.8	6735.1
62.5°	1384.3	1405.2	1731.3	2137.5	2702.4	3220.2	5204.3	8006.1	9791.4	9681.6	7099.5
65°	1070.5	1077.5	1246.6	1462.8	1964.9	2503.6	4583.6	8089.8	10333.6	10216.8	7092.5
66°	953.7	958.9	1082.7	1250.1	1672.0	2191.6	4311.6	7955.5	10419.1	10295.3	7005.3
67.5°	800.3	796.8	870.0	979.8	1255.3	1691.2	3828.7	7563.2	10318.0	10255.2	6726.4
70°	592.8	594.5	631.1	657.3	734.0	936.3	2765.2	6560.7	9509.0	9505.5	5961.0
72.5°	439.4	444.6	472.5	477.7	458.5	507.4	1593.5	5218.3	7606.8	7608.6	4456.4
75°	329.5	338.2	347.0	350.4	333.0	320.8	720.1	3511.4	5003.8	4967.2	2522.8
77.5°	251.1	254.5	261.5	256.3	252.8	221.4	299.9	1712.1	2470.5	2250.8	817.7
80°	183.1	183.1	190.0	183.1	181.3	158.7	163.9	549.2	725.3	603.2	176.1
82.5°	115.1	113.3	118.6	116.8	113.3	101.1	95.9	153.4	167.4	149.9	85.4
85°	64.5	62.8	61.0	59.3	54.0	45.3	52.3	57.5	76.7	78.5	61.0
87.5°	22.7	22.7	20.9	19.2	15.7	15.7	19.2	19.2	27.9	27.9	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0
2.5°	1067.0	1047.8	1019.9	983.3	957.2	931.0	903.1	887.4	864.8	859.5	866.5
5°	1086.2	1051.3	981.6	904.9	838.6	779.3	723.5	690.4	657.3	645.1	650.3
7.5°	1126.3	1067.0	948.5	824.7	714.8	625.9	559.7	521.3	491.7	479.5	482.9
10°	1185.6	1094.9	917.1	734.0	592.8	498.6	442.8	418.4	401.0	394.0	395.8
12.5°	1257.1	1135.0	877.0	643.3	488.2	406.2	380.1	374.8	371.4	367.9	369.6
15°	1337.3	1169.9	829.9	554.4	406.2	360.9	352.2	350.4	348.7	348.7	348.7
17.5°	1420.9	1201.3	777.6	470.7	353.9	333.0	327.8	327.8	327.8	329.5	329.5
20°	1499.4	1225.7	716.6	395.8	324.3	306.9	303.4	303.4	305.1	306.9	306.9
22.5°	1576.1	1236.1	645.1	343.5	299.9	284.2	279.0	279.0	279.0	280.7	280.7
25°	1642.4	1236.1	573.6	310.3	279.0	263.3	256.3	254.5	256.3	256.3	256.3
27.5°	1698.2	1230.9	503.9	287.7	258.0	242.3	235.4	233.6	237.1	238.9	238.9
30°	1757.4	1223.9	448.1	266.8	240.6	224.9	217.9	217.9	223.2	230.1	230.1
32.5°	1815.0	1229.2	404.5	249.3	223.2	211.0	204.0	205.7	216.2	226.7	226.7
35°	1876.0	1239.6	378.3	237.1	211.0	198.8	193.5	198.8	209.2	219.7	219.7
37.5°	1937.0	1251.8	362.6	226.7	200.5	188.3	184.8	191.8	204.0	214.4	216.2
40°	2001.5	1262.3	345.2	216.2	193.5	179.6	177.8	184.8	200.5	211.0	212.7
42.5°	2081.7	1283.2	324.3	207.5	186.6	169.1	170.9	176.1	191.8	207.5	209.2
45°	2238.6	1349.5	303.4	198.8	177.8	163.9	160.4	163.9	181.3	198.8	202.2
47.5°	2533.3	1499.4	280.7	190.0	169.1	160.4	146.5	149.9	165.6	184.8	186.6
50°	3098.2	1818.5	268.5	181.3	162.1	148.2	132.5	132.5	144.7	162.1	162.1
52.5°	3978.6	2390.3	275.5	174.3	153.4	136.0	120.3	118.6	125.5	137.7	137.7
55°	4928.8	3018.0	301.6	167.4	143.0	129.0	111.6	102.9	108.1	115.1	115.1
57.5°	5682.0	3333.5	373.1	163.9	130.8	123.8	101.1	88.9	94.1	101.1	101.1
60°	6013.3	3148.7	453.3	167.4	122.0	115.1	90.7	78.5	87.2	94.1	95.9
62.5°	5744.8	2592.6	486.4	158.7	109.8	102.9	88.9	73.2	83.7	88.9	90.7
65°	5164.2	1970.1	380.1	137.7	101.1	88.9	80.2	69.7	78.5	83.7	83.7
66°	4888.7	1717.3	324.3	127.3	97.6	83.7	76.7	69.7	76.7	80.2	81.9
67.5°	4461.6	1354.7	240.6	111.6	90.7	76.7	71.5	66.3	73.2	76.7	76.7
70°	3488.7	807.2	144.7	87.2	78.5	68.0	64.5	61.0	66.3	68.0	68.0
72.5°	2184.6	383.6	92.4	64.5	66.3	64.5	54.0	57.5	59.3	61.0	61.0
75°	1058.3	151.7	62.8	47.1	54.0	61.0	43.6	50.6	52.3	55.8	54.0
77.5°	294.6	73.2	40.1	34.9	47.1	47.1	33.1	40.1	47.1	59.3	54.0
80°	85.4	47.1	26.2	26.2	33.1	33.1	22.7	27.9	31.4	34.9	36.6
82.5°	59.3	31.4	17.4	19.2	19.2	20.9	13.9	13.9	17.4	17.4	19.2
85°	47.1	13.9	10.5	12.2	8.7	10.5	7.0	7.0	8.7	7.0	7.0
87.5°	19.2	7.0	7.0	7.0	5.2	5.2	3.5	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)